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Acid-Base, Fluids, Lytes Pocketcard Set

Acid-Base, Fluids, Lytes pocketcard Set					
Acid-Base Disorders Basics					
	Normal range		Simple acid-base disorders		
	Arterial	Venous	Met acid	Resp acid	Met alk
pH	7.38-7.44	7.35-7.43	7.35	7.35	7.45
pCO ₂	36-44 mmHg	36-46 mmHg	40	50	30
HCO ₃ ⁻	21-27 mEq/L	23-29 mEq/L	12	26	30
pO ₂	75-100 mmHg	37-47 mmHg			
O ₂ sat	>95%	90%-95%			
BE	-2 to 3				
Examples			• Diarrhea • DKA	• COPD • Resp distress • Anemia	• Vomiting • Diuretics • Hypertension • PE
Algorithm for Determining Acid-Base Status					
Measure blood pH, HCO ₃ ⁻ , PaCO ₂ , Na ⁺ , and Cl ⁻					
pH < 7.38 (Acidemia) pH 7.36-7.44 (Normal) pH > 7.44 (Alkalemia)					
Arterial HCO₃⁻ < 21 mEq/L → Metabolic Acidosis → Compensation: PaCO₂ ↓ 1.2 mmHg for every 10 mEq/L fall in HCO₃⁻ → Calculate Anion Gap (AG) → Causes of non-anion gap metabolic acidosis: DKA, BDKPUS, Renal tubular acidosis (RTA), Drugs (acetazolamide, topiramate, furosemide, tenofovir, etc.), Lactate acid, Ethylene glycol, Salicylate, etc. Arterial PaCO₂ > 40 mmHg → Respiratory Acidosis → Compensation: HCO₃⁻ ↑ by 1 mEq/L for each 10 mmHg ↑ PaCO₂ → Causes of anion gap metabolic acidosis: DKA, BDKPUS, Renal tubular acidosis (RTA), Drugs (acetazolamide, topiramate, furosemide, tenofovir, etc.), Lactate acid, Ethylene glycol, Salicylate, etc. Arterial PaCO₂ < 38 mmHg → Respiratory Alkalosis → Compensation: HCO₃⁻ ↓ by 2 mEq/L for each 10 mmHg ↓ PaCO₂ → Causes of anion gap metabolic acidosis: DKA, BDKPUS, Renal tubular acidosis (RTA), Drugs (acetazolamide, topiramate, furosemide, tenofovir, etc.), Lactate acid, Ethylene glycol, Salicylate, etc. Arterial HCO₃⁻ > 26 mEq/L → Metabolic Alkalosis → Compensation: PaCO₂ ↑ 0.7 mmHg for every 10 mEq/L rise in HCO₃⁻ → Causes of anion gap metabolic acidosis: DKA, BDKPUS, Renal tubular acidosis (RTA), Drugs (acetazolamide, topiramate, furosemide, tenofovir, etc.), Lactate acid, Ethylene glycol, Salicylate, etc.					



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Customer Reviews

not much useful, i am in nephrology, i thought this will give a quick step by step approach to acid base problems, but its only some random acid base formulas. May be good for med students, for me its almost useless.

Good for quick review

Pocket size - great.

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